



**Pump Station S-5A
L-8 Flow Equalization Basin
Water Resources Advisory Meeting
April 2, 2015**

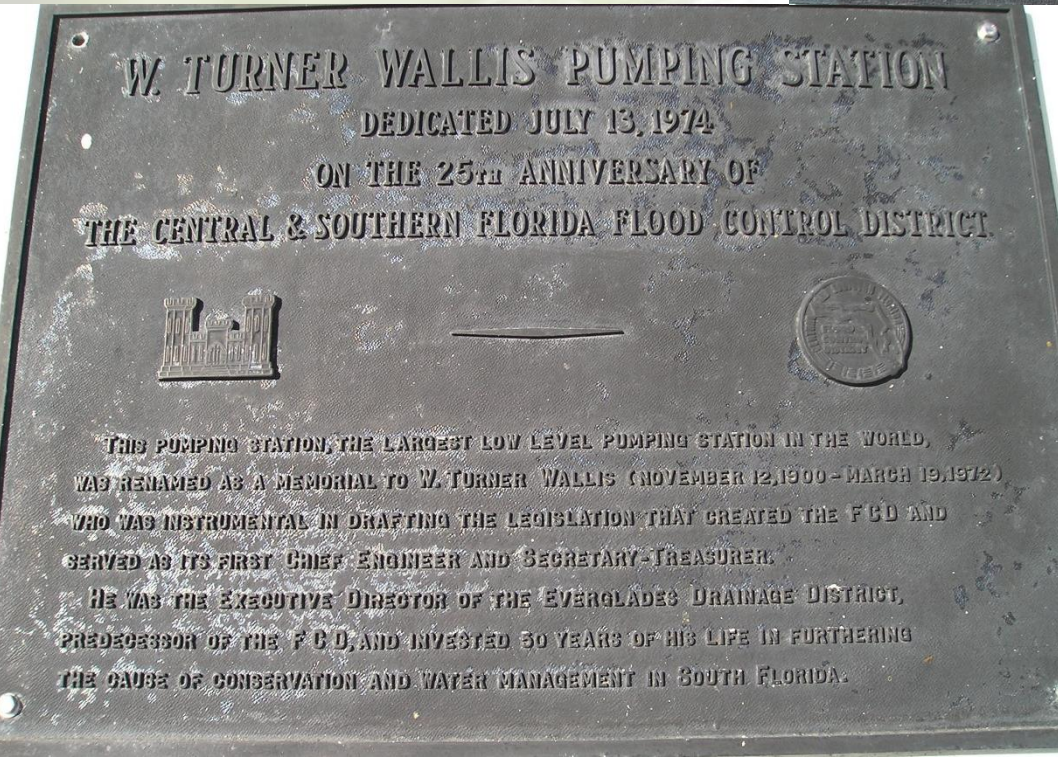
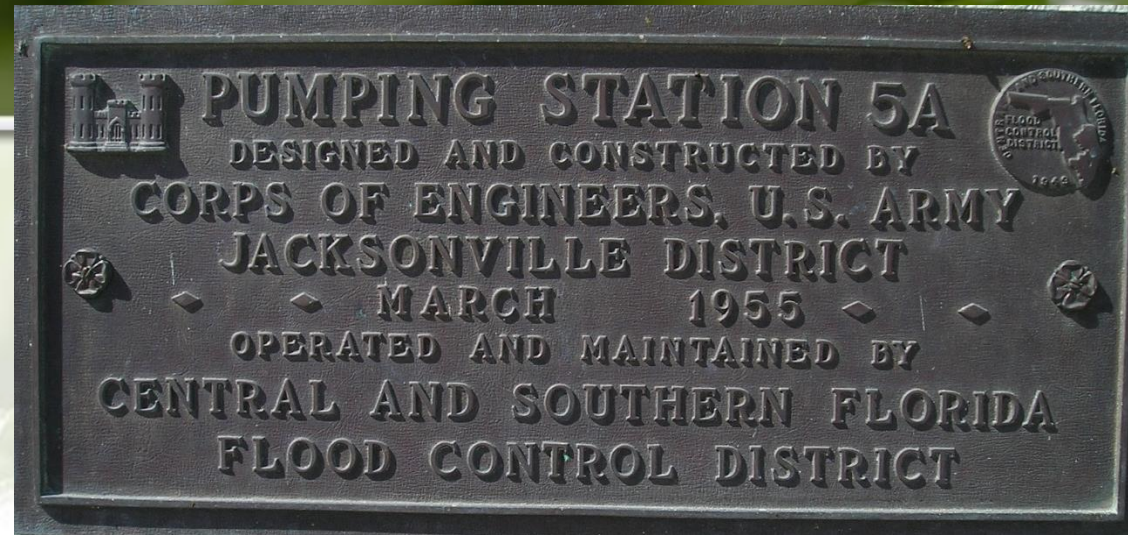
John Mitnik, P.E.
Bureau Chief
Engineering & Construction Bureau

Pump Station S-5A



History

- Constructed in 1955
- 6 pumps rated at 800 cfs each (4,800cfs)



- Serves S-5A basin
 - 230 square miles
 - Provides 3/4 inch per day drainage



L-8 Canal

S-5A

C-51 Canal

STA-1 Inflow Basin

STA-1 West

STA-1 East

WCA 1

Hardening Project



Repowering Project

■ Overview

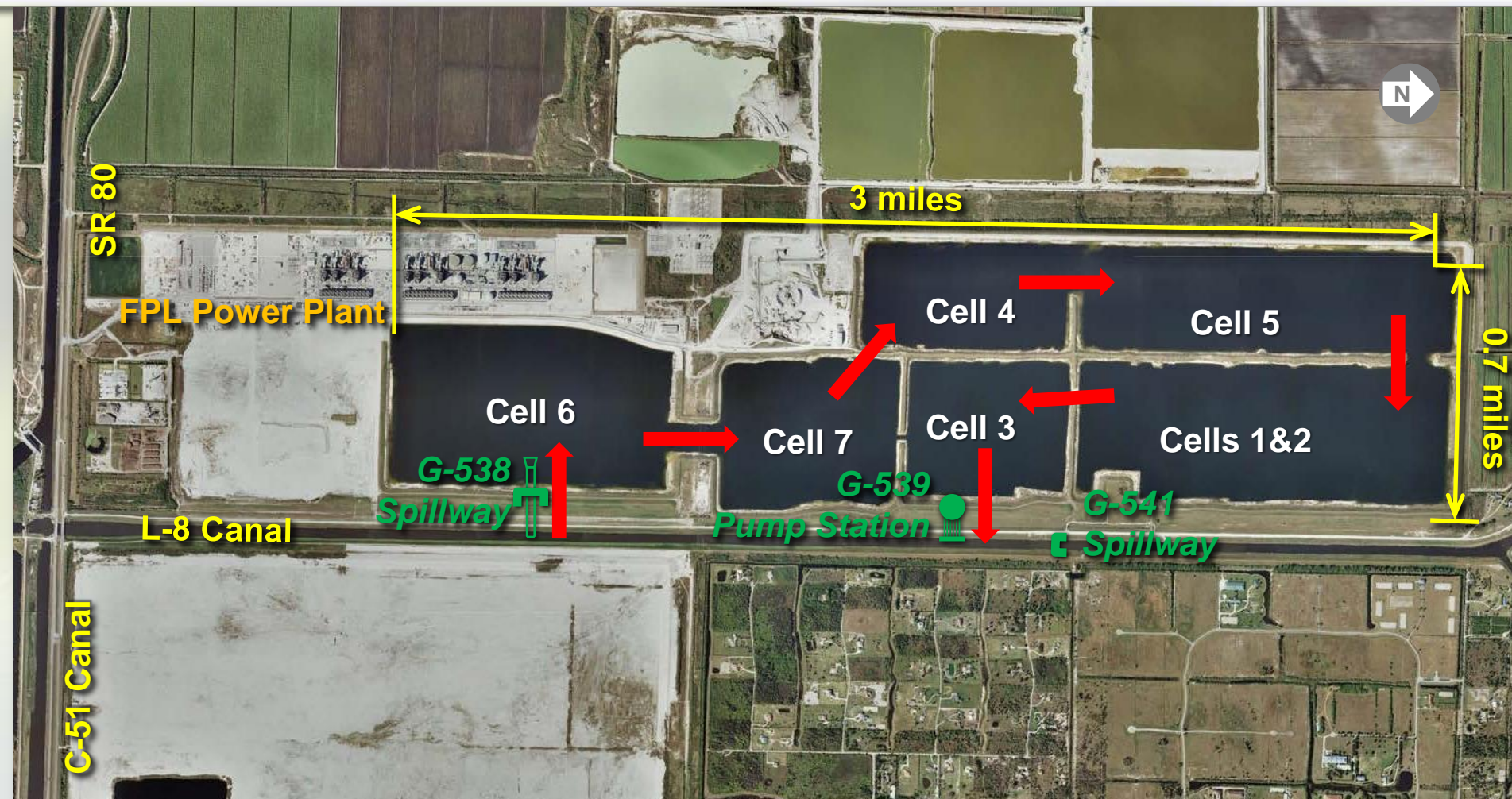
- Refurbish pumps, chain drives and engines (Dual Fuel)
- Upgrade and replace station electrical equipment
- Upgrade and replace control systems for full station automation
- Replace discharge gates



L-8 Flow Equalization Basin



Flow through the Reservoir



G-538 Inflow Structure



G-539 Pump Station



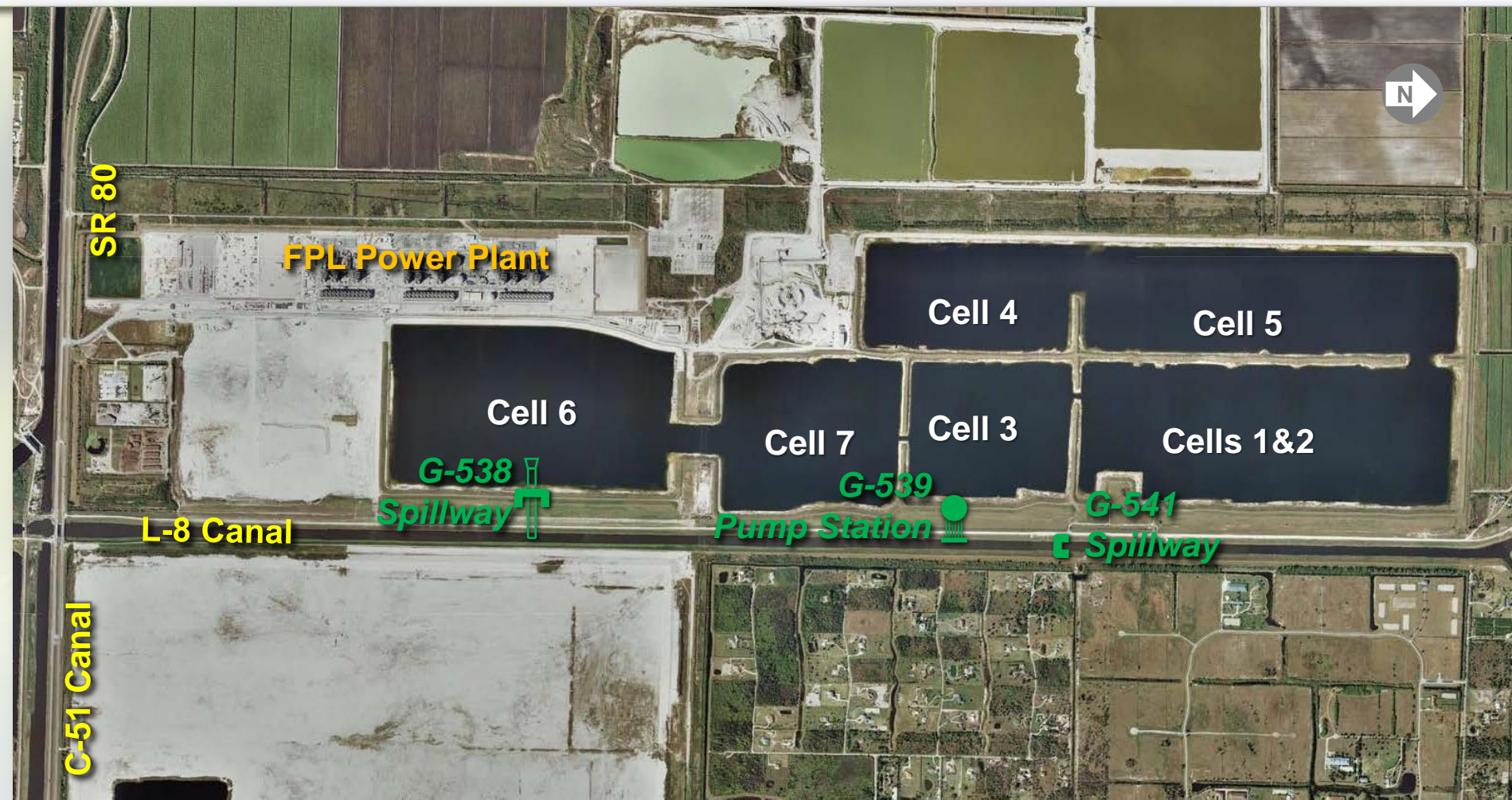
- Cells 1/2/4/5 – El. -29.10 NAVD 88
- Cell 6&7 – El. -30.20 NAVD 88
- Cell 3 – 25.90 NAVD 88



Milestones

Milestone	Compliance date	Status
Submit state and federal permits	1/31/2014	Complete
Construction status report	3/1/2014	Complete
Construction status report	3/1/2015	Complete
Completion of construction	12/31/2016	Pending
Long term operations	12/31/2022	Pending

L-8 Divide Structure



L-8 Divide Structure



Milestones

Milestone	Compliance date	Status
Initiate design	10/1/2012	Complete
Complete design	9/30/2014	Complete
Initiate construction	10/1/2016	Complete
Complete construction	9/30/2018	Pending



Questions?